

NASA's System-Wide Safety...

National Aeronautics and
Space Administration



A NEW ERA IN AVIATION IS HERE!

NASA's System-Wide Safety project is developing the concept and requirements for an assured In-Time Aviation Safety Management System (IASMS) that will:

- Improve the efficiency of flight, the access to airspace, and the expansion of services provided by air vehicles
- Explore, discover, and understand the impact on safety from growing complexity introduced by industry modernization
- Develop and demonstrate innovative solutions that enable the aviation transformation envisioned for global airspace system
- Identify and proactively mitigate risks in accordance with target levels of safety
- Assure safe, rapid, and repeatable access to a transformed National Airspace System (NAS)



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We Need ALL of This to be Safe...

When we have developed an operational concept of operation, identified hazards, and built up the services functions and capabilities necessary to address them, we will have the ability to execute preflight safety management, flight safety and learn from post flight safety by developing new and advanced capabilities to address the various safety risks and hazards in efficient operations with the NAS. There is much work yet to be done in the near term for today's challenges, as well as addressing the technology roadmap for future needs. The System-Wide Safety project is also looking at the NTSB recommendations for part 135 SMS requirements and how IASMS can be deployed as a solution and at the implications for human automation teaming and the increasing complexity for that, as the Advanced Air Mobility (AAM) ecosystem continues to evolve.

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In-Time Aviation Safety Management System (IASMS)

